



# JANKI DEVI MEMORIAL COLLEGE

UNIVERSITY OF DELHI

## DEPARTMENT OF MATHEMATICS

*Under the aegis of IQAC*

*is organising*

# *International Conference on Pure & Applied Mathematics 2024*

Funded by **National Board for Higher Mathematics (NBHM)**

February 22-23, 2024

**Venue:** Janki Devi Memorial College, University of Delhi,  
Sir Ganga Ram Hospital Marg, New Delhi-110060

## About the College

Janki Devi Memorial College, a premier women's college of the University of Delhi was founded in 1959 by the famous Gandhian Shri Brij Krishan Chandiwala in memory of his mother Smt. Janki Devi. JDMC aims to provide quality education to young women and empower them to become economically self-reliant, have the confidence to face the vicissitudes of a challenging society, contribute meaningfully to society at large, and acquire the capability to think, lead, and change the world.

The College has been accredited Grade “A+” by the National Assessment and Accreditation Council (NAAC) in its second cycle. Furthermore, the college received ISO certification 21001:2018 and ISO 9001:2015 in March 2023 – the only college in the University of Delhi to receive this prestigious certification. JDMC is the first college to install a rainwater harvesting system and has won the Chief Minister Prize for Institutional Rain Water Harvesting. The college received a District Green Champion Award for the Academic Year 2021-22 from the Mahatma Gandhi National Council of Rural Education (MGNCRE), Ministry of Education, Government of India for adopting and implementing best practices in the areas of Sanitation, Hygiene, Waste Management, Water Management, Energy Management, and Greenery Management.

Situated in New Delhi Ridge in idyllic surroundings with its lush green lawns and imposing building, the college offers twelve undergraduate courses in Liberal Arts, Social Sciences, Mathematics, and Commerce, and eight postgraduate courses. JDMC is the Centre for Non-Collegiate Women's Education Board (NCWEB), University of Delhi. The college runs several Add-on courses/Certificate courses for students to enhance their skills. JDMC has MOUs with national and international agencies to provide much-needed real-world exposure to its students. It has more than thirty Societies/Clubs/Cells to give its students sufficient platforms to excel in various domains.

## About the Department

The Department of Mathematics comprises highly committed and dedicated faculty members. The faculty has a broad spectrum of specializations, including algebra, analysis, coding theory, dynamical systems, optimization, and more. The department seeks to give students a thorough understanding of the subject so they can go on to work in actuarial sciences, banking, civil services, the corporate world, teaching, research, and many other sectors. For the overall development of students, a varied range of activities are organized which includes talks, seminars, workshops, add-on courses, quizzes, field visits, excursions, and fun events.

## About the Conference

The International Conference on Pure and Applied Mathematics 2024 ( ICPAM-2024 ) aims to provide a perfect platform for researchers and scholars across the globe to share and present their ideas and findings in the field of pure and applied mathematics. This conference will allow the participants to interact with the field specialists directly. ICPAM-2024 will also include invited talks by eminent speakers and paper reading sessions by the participants in a hybrid mode.

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## Broad topics to be covered

- Algebra
- Analysis
- Artificial Intelligence
- Coding Theory
- Cryptography
- Engineering Mathematics
- Financial Mathematics
- Fuzzy Set Theory
- Graph Theory
- Machine Learning
- Mathematical Biology
- Mathematics & Computer Science
- Mechanics
- Number Theory
- Operator Theory
- Optimization
- Probability and Statistics
- Topology

## Relevance & importance

The theme of India's G20 Presidency is Vasudhaiva Kutumbakam or One Earth, One Family, One Future. The aim of the conference is aligned with the sustainability development goal 4 which ensures inclusivity and promotes lifelong learning opportunities for all. It emphasizes the interconnectedness of global challenges and the need for collaborative efforts to address them. The conference would provide a platform for mathematicians and researchers to share their insights, present innovative methodologies, and foster collaborations that promote sustainable development, social equality, and a better future for all. Mathematics, pure as well as applied has a crucial role to play across various disciplines. Mathematics provides the foundation for economic analysis and modeling, which is crucial for understanding global economic trends, forecasting growth, and assessing the impact of policy measures. Mathematical techniques, such as statistical analysis, input-output modeling, data mining, machine learning, and network analysis, assist in extracting insights and communicating information effectively which allows policymakers to identify trends, patterns, and interdependencies within complex datasets. To conclude one can say that mathematics plays a crucial role in economic analysis, policy coordination, trade analysis, policy evaluation, and data-driven decision-making. The international Conference on Pure and Applied Mathematics-2024 (ICPAM-2024) conference provides a platform for mathematicians, experts, researchers, practitioners, policymakers, and other stakeholders from various countries and backgrounds to exchange knowledge, share insights, and discuss recent trends and promote research in Pure and Applied Mathematics.

## Advisory Committee

- Prof. B. K. Dass, Former Head, Department of Mathematics, University of Delhi
- Prof. Riddhi Shah, School of Physical Sciences, Jawaharlal Nehru University
- Prof. Dinesh Khurana, Department of Mathematics, Panjab University
- Prof. Geetha Venkataraman, School of Liberal Studies, Dr. B. R. Ambedkar University Delhi

**Guest of Honour: Padma Shri Prof. Dinesh Singh, Vice-Chairman, J & K Higher Education Council**

## Speakers for the conference

- Padma Shri Prof. Dinesh Singh, Former Vice-Chancellor, University of Delhi
- Prof. Ram Murty, Queen's Research Chair, Queen's University, Canada
- Prof. Rekha Thomas, University of Washington
- Prof. Carlos Arnoldo Morales Rojas, IMPA Brazil
- Prof. Naveen Kumar, Dean Faculty of Mathematical Sciences, University of Delhi
- Prof. Sudhir Ghorpade, IIT Bombay
- Prof. Shobha Bagai, CIC, University of Delhi
- Dr. Nikita Agarwal, IISER Bhopal
- Dr. Pranav Dass, University of Delhi

## Organising Committee

- Prof. Swati Pal (Patron)
- Prof. Payal Nagpal (IQAC Coordinator)
- Dr. Ritu Arora (Convenor)
- Ms. Teena Kohli (Convenor)
- Ms. Chanpreet Kaur (Convenor)

## Organising Team Members

- Dr. Sharda Sharma Gautam
- Dr. Tanu Gupta
- Ms. Sonia
- Dr. Anuradha
- Dr. Narayan Singh
- Mr. Laxmi Kant
- Ms. Geetanjali Raiya
- Mr. Aditya Robin Singh
- Mr. Vikendra Singh
- Dr. Rakesh
- Ms. Poonam Jorwal
- Mr. Shankar
- Dr. Manish Chauhan

## Registration Details

- Participation fee:
  - For faculty members and others - INR 500
  - For students and scholars - INR 250
- It is mandatory to fill out the Google form.
- Link- <https://forms.gle/NRculeGrv62uxdkR8>
- Last date to register and to submit abstract is January 31, 2024.
- Please note that no TA/DA will be provided to attend or present in this conference. Outstation participants are expected to make their travel and accommodation arrangements at their own expense.

## Payment Details

Account Number: **8594101050003**  
Bank Name: Canara Bank  
Account Type: Savings  
IFSC Number: CNRB0008594  
Branch: Janki Devi Memorial College

## QR Code for registration



### Convenors:

**Dr. Ritu Arora- 9811551236**

**Ms. Teena Kohli- 9871171446**

**Ms. Chanpreet Kaur- 9811147721**

**Prof. Payal Nagpal**  
**IQAC Coordinator**

**Prof. Swati Pal**  
**Principal**

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